

DISCOVER
MICRON + SERIES

Meler's *most awarded* series reinvents itself by adding advanced usability to energy efficiency and adhesive quality.

PISTON PUMP SERIES

EFFICIENT / SAFE / CONNECTED

MICRON+

Micron+, the melter for Industry 4.0

USABILITY AND DEVICE CONTROL

Micron+ enables quick control of the equipment with all information to hand.

- Touch screen 7"
- Easy to use and simplified menu
- Functions: 9 languages, alarms, personalization of each area, calendars, schedules, passwords (levels), etc.
- Fast programming
- USB for updates, back-up & datalogger

FLEXIBILITY

Micron+ adapts to any installation requirement.

- Fully integrated in the main machine thanks to its compact design
- Easy-clean design for easy maintenance
- Configuration adapted to each user (I/O, level detector, etc...)

CONNECTIVITY

- Remote control and multiple connectivity options:
Bluetooth / Wifi
Communication protocols:
(MODBUS RTU, PROFIBUS, PROFINET, ETHERNET, ETHERCAT)
- Controlled from a single interface



ENERGY EFFICIENCY

All the units in the Micron+ series are based on "MICRON TECHNOLOGY" aimed at reducing electricity consumption to a minimum.

> CAREFUL TREATMENT OF THE ADHESIVE

Sequential heating
Greater improvement to the unit's efficiency of use:

- Quality of the adhesive
- Durability of the materials
- Efficiency of the process
- Energy and air savings

The temperature is distributed uniformly over the entire contact surface of the tank, with no hotspots where the adhesive can degrade, for careful and efficient melting.

> USE AND MAINTENANCE

Same functioning for all Meler units.

In very few steps, we get full access to the interior of the unit.

Cool Touch exterior housing ensures maximum operator safety.

The large tank lid opens fully, making it easier to fill and clean.



EMPOWERING YOUR HOT MELT SYSTEMS

Meler's optional systems : One specific solution for each hot melt need.

PROCESS AUTOMATION

STARBI INTEGRATED: an internal programmer for accurate adhesive applications with variable speed and timing.
AUTOMATIC ADHESIVE FEEDER: it avoids manual filling and guarantees a continuous level of adhesive.



MONITORING

MICRON+ FLOWMETER: a high-quality solution for monitoring immediate hot melt consumption to perform a cost analysis reduction.



USABILITY AND SAFETY

EXTERNAL PRESSURE REGULATION:



REMOVABLE HMI / BLUETOOTH:

Remote control / Total safety



LIMITLESS CONTROL

IOT PLATFORM:

Periodic data recording
Remote control from anywhere
Traceability
On-line and real-time assistance



MODELS and DIMENSIONS

Micron+ 5 / Micron+ 10 / Micron+ 20 / Micron+ 35



Powered by:

EASY CLEAN

TOTAL ACCESS

■ "Close equipment"
□ "Open equipment"

TECHNICAL FEATURES

Melting rate (*)	from 9.0 to 30 kg/h
Pumping capacity (*)	29.3 kg/h - 7cc/pump • 66.0 kg/h - 19cc/pump
Number of outputs	2, 4 or 6 electrical outputs / 6 hydraulic outputs (threads of 9/16)
Range of temperatures	40 to 200 °C (104 to 392 °F)
(optional)	40 to 230 °C (104 to 446 °F)
Temperature control	RTD ± 0.5°C (±1°F) Ni120, Pt100 or NTC-R
Maximum hydraulic working pressure	81.6 bar (1,183 psi) / Pneumatic pressure up to 6 bar
Maximum connection power (The maximum permissible current connection is 27 A per phase)	Maximum connection power for each hose/appliator pair: 1,800 W Consult power tables available in Micron + piston pump manual according to each case or installation.
External features	Inputs: Unit On-Off • Standby On-Off • Activity control (input signal for auto standby/off) • Pump On-Off • Coms On-Off • Inhibition of electrical outputs. Outputs: Standby • Temperature OK • Ready • Running • Alarms • Level OK • Level NOK
Electrical requirements	1N ~ 230V 50/60Hz + PE 3N ~ 400V 50/60Hz + PE 3 ~ 230V 50/60Hz + PE (optional) 3 ~ 400V 50/60Hz + PE with transformer unit (optional) 3 ~ 480V 50/60Hz + PE with transformer unit (UL)
Ambient temperature	0 to 40°C
Weight (unloaded)	37.5 kg (5L) / 45.7 kg (10L) / 60.2 kg (20L) / 90.1 kg (35L)

(*) Depending on the type of adhesive and working conditions.